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## **AMENDMENTS TO THE CLAIMS:**

Please cancel claims 15-17 without prejudice, amend claim 9 as shown below, and add new claims 19-21.

## Listing of the Claims

This listing of claims will replace all prior versions and listings of claims in the Application:

- 1-8 (Cancelled)
- 9. (Currently amended) In A a method of automatically hybridizing a polynucleotide probe composition to a at least one target on a solid substrate, said method executed in an automated staining system having evaporation inhibitor liquid covering a polynucleotide hybridization buffer-covered target on said slide, the improvement comprising the steps of

preparing a section of tissue or colls to be examined;

automatically hybridizing the tissue section or cellular preparation said target with a said polynucleotide probe composition in the presence of low molecular weight dextran sulfate having a molecular weight range from about 8,000 to about 16,000 daltons, wherein said polynucleotide probe composition contains at least one sequence complementary to a coding region of the said target;

removing unhybridized-polynucleotide probe from said tissue section or cellular preparation;

detecting the hybridized polynucleotide probe target combination,

- 10. (original) The method of claim 9 wherein said polynucleotide probe composition is selected from the group consisting of DNA probes and RNA probes.
- 11. (original) The method of claim 9 wherein said tissue section is a paraffin-embedded tissue section.
- 12. (original) The method of claim 9 wherein said tissue section is a fresh-frozen tissue section.

- 13. (original) The method of claim 9 wherein said polynucleotide probe composition is labeled with a detectable label.
- 14. (original) The method of claim 9 wherein said label is selected from the group consisting essentially of fluorophores, haptens and chromogens.
- 15-17. (Canceled)
- 18. (Currently amended) The method of claim 9 wherein said probe composition is arrayed on a said solid substrate.
- 19. (New) The method of claim 9 wherein said dextran sulfate has an average molecular weight of about 13,000.
- 20. (New) The method of claim 9 wherein said low molecular weight dextran sulfate concentration ranges from about 5% to about 25%, wt./vol.
- 21. (New) The method of claim 9 wherein said polynucleotide hybridization buffer optionally contains formamide having a concentration of from about 5% to about 80%, wt./vol.